IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in

the application. An identifier indicating the status of each claim is provided.

Listing of Claims

1.   (Currently Amended) A transmitter system for transmitting program

related information relating to program information, comprising:

generating means for generating said program related information and ~~display~~

~~related~~ layout information relating to displaying said program related information; and

transmitting means for transmitting said program related information and said

~~display related~~ layout information separately;

~~said generating means composing said program related information and said~~

~~display related information of a first part including identification information for identifying said~~

~~program related information and said display relatedinformation and a second part composed of~~

~~actual data;~~

whereby said ~~display related~~ layout information includes information for initiating

an operation in response to selection of a displayed item; and

whereby the displaying of said program related information includes partitioning

a display space according to a hierarchical structure having at least three levels, a main page

level, a box level and a cell level, wherein main pages are linked to boxes via main-box link

information and boxes are linked to cells via box-cell link information; and

whereby each main page is associated with a main layout tag that includes a

display position for said page and an ID of a box composing the page, each box is associated

with a box layout tag that includes a display position for said box and an ID of a cell composing

the box, and each cell is associated with a cell layout tag that includes an ID of a data format of

the cell, a display position of the cell, and one or more IDs of information related to the cell,

        wherein said program related information and said display related layout

information are divided into a first part that includes identification information for identifying

said program related information and said display related layout information and a plurality of

second parts, each composed of label data for identifying a type of block data, size data, and the

block data, and

        wherein each of the plurality of second parts is further divided into a third part

composed of identification information for identifying a type of second block data and second

size data and a plurality of fourth parts composed the second block data.

        2.   (Canceled)

        3.   (Canceled)

        4.   (Currently Amended) A receiver system for receiving program related

information relating to program information, comprising:

        receiving means for separately receiving said program related information and

~~display related~~ layout information relating to displaying said program related information,

        wherein said program related information and said display related layout

information are divided into a first part that includes identification information for identifying

said program related information and said display related layout information and a plurality of

second parts, each composed of label data for identifying a type of block data, size data, and the

block data,

wherein each of the plurality of second parts is further divided into a third part

composed of identification information for identifying a type of second block data and second

size data and a plurality of fourth parts composed the second block data; and

generating means for generating fourth information for displaying said program

related information based on said program related information and said display related layout

information;

whereby said display related layout information includes information for initiating

an operation in response to selection of a displayed item; and

whereby the displaying of said program related information includes partitioning

a display space according to a hierarchical structure having at least three levels, a main page

level, a box level and a cell level, wherein main pages are linked to boxes via main-box link

information and boxes are linked to cells via box-cell link information; and

whereby each main page is associated with a main layout tag that includes a

display position for said page and an ID of a box composing the page, each box is associated

with a box layout tag that includes a display position for said box and an ID of a cell composing

the box, and each cell is associated with a cell layout tag that includes an ID of a data format of

the cell, a display position of the cell, and one or more IDs of information related to the cell.

5.   (Currently Amended) The receiver system according to Claim 4, further

comprising:

first separating means for separating said program related information and said ~~display-related~~ layout information into a first part containing identification information for identifying said program related information and said ~~display-related~~ layout information and a second part composed of actual data;

second separating means for separating said second part into a third part comprising identification information for identifying said second part and a fourth part composed of actual data; and

retrieving means for retrieving data of said second part and said fourth part of said program related information and said ~~display-related~~ layout information based on said identification information.

6.   (Currently Amended) The receiver system according to Claim 5, further comprising updating means for updating said second part and said fourth part of said program related information and said ~~display-related~~ layout information based on said identification information.

7.   (Original) The receiver system according to Claim 5, further comprising display control means for displaying a first window on a predetermined screen and displaying data of said fourth part within said first window.

8.   (Currently Amended) A transmitting method for transmitting program related information relating to program information, comprising the steps of:

generating said program related information and ~~display related~~ layout

information relating to displaying said program related information; and

transmitting said program related information and said ~~display related~~ layout

information separately;

said generating step composing said program related information and said ~~display~~

~~related~~ layout information, ~~of a first part including identification information for identifying said~~

~~program related information and said display related information and a second part composed of~~

~~actual data~~

wherein said program related information and said display related layout

information are divided into a first part that includes identification information for identifying

said program related information and said display related layout information and a plurality of

second parts, each composed of label data for identifying a type of block data, size data, and the

block data,

wherein each of the plurality of second parts is further divided into a third part

composed of identification information for identifying a type of second block data and second

size data and a plurality of fourth parts composed the second block data;

whereby said ~~display related~~ layout information includes information for initiating

an operation in response to selection of a displayed item; and

whereby the displaying of said program related information includes partitioning

a display space according to a hierarchical structure having at least three levels, a main page

level, a box level and a cell level, wherein main pages are linked to boxes via main-box link

information and boxes are linked to cells via box-cell link information; and

whereby each main page is associated with a main layout tag that includes a

display position for said page and an ID of a box composing the page, each box is associated

with a box layout tag that includes a display position for said box and an ID of a cell composing

the box, and each cell is associated with a cell layout tag that includes an ID of a data format of

the cell, a display position of the cell, and one or more IDs of information related to the cell.

9.   (Currently Amended) A receiving method for receiving program related

information relating to program information, comprising the steps of:

receiving separately said program related information and ~~display-related~~ layout

information relating to displaying said program related information,

wherein said program related information and said display related layout

information are divided into a first part that includes identification information for identifying

said program related information and said display related layout information and a plurality of

second parts, each composed of label data for identifying a type of block data, size data, and the

block data,

wherein each of the plurality of second parts is further divided into a third part

composed of identification information for identifying a type of second block data and second

size data and a plurality of fourth parts composed the second block data; and

generating fourth information for displaying said program related information

based on said program related information and said ~~display-related~~ layout information;

whereby said ~~display-related~~ layout information includes information for initiating

an operation in response to selection of a displayed item; and

whereby the displaying of said program related information includes partitioning

a display space according to a hierarchical structure having at least three levels, a main page

level, a box level and a cell level, wherein main pages are linked to boxes via main-box link

information and boxes are linked to cells via box-cell link information; and

whereby each main page is associated with a main layout tag that includes a

display position for said page and an ID of a box composing the page, each box is associated

with a box layout tag that includes a display position for said box and an ID of a cell composing

the box, and each cell is associated with a cell layout tag that includes an ID of a data format of

the cell, a display position of the cell, and one or more IDs of information related to the cell.

10.   (Currently Amended) A transmission medium for transmitting a computer

program for transmitting program related information relating to program information, said

computer program comprising the steps of:

generating said program related information and ~~display-related~~ layout

information relating to displaying said program related information; and

transmitting said program related information and said ~~display-related~~ layout

information separately;

said generating step composing said program related information and said ~~display-~~

~~related~~ layout information ~~of a first part including identification information for identifying said~~

~~program-related information and said display-related information and a second part composed of~~

~~actual data,~~

wherein said program related information and said display related layout

information are divided into a first part that includes identification information for identifying

said program related information and said display related layout information and a plurality of

second parts, each composed of label data for identifying a type of block data, size data, and the

block data,

wherein each of the plurality of second parts is further divided into a third part

composed of identification information for identifying a type of second block data and second

size data and a plurality of fourth parts composed the second block data;

whereby said ~~display related~~ layout information includes information for initiating

an operation in response to selection of a displayed item; and

whereby the displaying of said program related information includes partitioning

a display space according to a hierarchical structure having at least three levels, a main page

level, a box level and a cell level, wherein main pages are linked to boxes via main-box link

information and boxes are linked to cells via box-cell link information; and

whereby each main page is associated with a main layout tag that includes a

display position for said page and an ID of a box composing the page, each box is associated

with a box layout tag that includes a display position for said box and an ID of a cell composing

the box, and each cell is associated with a cell layout tag that includes an ID of a data format of

the cell, a display position of the cell, and one or more IDs of information related to the cell.

11.   (Currently Amended) A transmission medium for transmitting a computer

program for receiving program related information relating to program information, said

computer program comprising the steps of:

receiving separately said program related information and ~~display related~~ layout

information relating to displaying said program related information,

wherein said program related information and said display related layout

information are divided into a first part that includes identification information for identifying

said program related information and said display related layout information and a plurality of

second parts, each composed of label data for identifying a type of block data, size data, and the

block data,

wherein each of the plurality of second parts is further divided into a third part

composed of identification information for identifying a type of second block data and second

size data and a plurality of fourth parts composed the second block data; and

generating fourth information for displaying said program related information

based on said program related information and said ~~display related~~ layout information;

whereby said ~~display related~~ layout information includes information for initiating

an operation in response to selection of a displayed item; and

whereby the displaying of said program related information includes partitioning

a display space according to a hierarchical structure having at least three levels, a main page

level, a box level and a cell level, wherein main pages are linked to boxes via main-box link

information and boxes are linked to cells via box-cell link information; and

whereby each main page is associated with a main layout tag that includes a

display position for said page and an ID of a box composing the page, each box is associated

with a box layout tag that includes a display position for said box and an ID of a cell composing

the box, and each cell is associated with a cell layout tag that includes an ID of a data format of

the cell, a display position of the cell, and one or more IDs of information related to the cell.

12.   (Currently Amended) The receiver system according to Claim 4, further

comprising second generating means for generating fifth information from said program related

information and said ~~display related~~ layout information.

13.   (Currently Amended) The receiving method according to Claim 9, further

comprising a second generating step for generating fifth information from said program related

information and said ~~display related~~ layout information.

14.   (Currently Amended) The transmitting medium according to Claim 11,

further comprising a second generating step for generating fifth information from said program

related information and said ~~display related~~ layout information.

15.   (Currently Amended) The receiver system according to Claim 5, wherein

a first window is composed of one or more boxes.